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CENTRAL INTELLIGENCE AGENCY

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SUBJECT

Difficulties with the One-Dimensional
Computing Machine

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1. In mid-March 1954 the Work Group for Crystal Structure analysis in the Academy Institute for Medicine and Biology in Berlin-Dach completed the model of a one-dimensional computing machine for the solution of Fourier syntheses. This model is to serve as an experimental stage for a two-dimensional computing machine of the same type to be developed later.
2. Trial operations carried out so far with the one-dimensional model have not been satisfactory. It turned out that contact difficulties arose at the sinus generator elements because the calite disks and their tape wore out too quickly when the tap rotated over the surface of the disk. At present, new trial operations are underway in which small quantities of mercury are inserted between the taps and the disks in order to avoid their wearing. Conclusive results have not yet been reached.

Enclosure: One blueprint (1 page) of the one-dimensional computing machine to OSI only.

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